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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/782,775	02/23/2004	Martin Grabner	03P00632	5500
24252	7590 12/19/2005		EXAMINER	
OSRAM SYLVANIA INC 100 ENDICOTT STREET			PAPE, ZA	CHARY
DANVERS,			ART UNIT	PAPER NUMBER
•			2835	

DATE MAILED: 12/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
Office Action Commence	10/782,775	GRABNER ET AL.
Office Action Summary	Examiner	Art Unit
TI MANUA DATE IN	Zachary M. Pape	2835
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the d	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tinuity will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
<ul> <li>1) Responsive to communication(s) filed on 23 Fe</li> <li>2a) This action is FINAL. 2b) This</li> <li>3) Since this application is in condition for allowar closed in accordance with the practice under E</li> </ul>	action is non-final.  nce except for formal matters, pro	•
Disposition of Claims		
4) ☐ Claim(s) 1-14 is/are pending in the application.  4a) Of the above claim(s) is/are withdray  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1-14 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.	
Application Papers		
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 23 February 2004 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	e: a)⊠ accepted or b)⊡ objecte drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	4)	
Paper No(s)/Mail Date	6) Other:	and the individual (i 10-105)

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#### **DETAILED ACTION**

# Claim Rejections - 35 USC § 112/101

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-14 are also rejected under 35 U.S.C. 112, first paragraph. Specifically, since the claimed invention is not supported by either a credible asserted utility or a well established utility for the reasons set forth above, one skilled in the art clearly would not know how to use the claimed invention.

In the present case, the applicant recites that a thermal mat is located between an inductive component having a core (specifically a transformer) and a component (specifically an integrated circuit) wherein the inductor serves to remove heat from the component through the thermal mat. The applicant further claims that the inductive component is an active part of the circuit arrangement. Since both the component (Integrated circuit) and the inductive component are active and will produce heat (In the case of the inductive component heat is generated through I²R losses in the windings, and also from the eddy current losses in the core) it is unclear to the examiner how the induction component will function to remove heat from the component (Integrated circuit) through the thermal mat. In other words, if the induction component acts as a heat source in itself, how is it able to remove heat from the components (integrated circuits)?

## 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-14 are rejected under 35 U.S.C. 101 because the claimed invention is not supported by either a credible operable utility or a well established operable utility (See comments above regarding operability).

## Conclusion

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US 6,215,663 teaches a transformer mounted on a printed circuit board. US 6,432,497 teaches a thermal mat between a component and a heat sink.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zachary M. Pape whose telephone number is 571-272-2201. The examiner can normally be reached on Mon. - Thur. & every other Fri. (8:00am - 5:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Feild can be reached at 571-272-2092. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**ZMP** 

ANATOLY VORTMAN PRIMARY EXAMINER